



ATTORNEY DOCKET NO. KLR 7146.125

#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION EXAMINING OPERATIONS

Applicant: Baoxin Li

Group Art Unit: 3711

Serial No.: 10/058,684

Examiner:

Filed: Jan. 28, 2002

Title: SUMMARIZATION OF SUMO VIDEO CONTENT

RECEIVED  
JUL 29 2002  
TECHNOLOGY CENTER R3700

RECEIVED  
SEP 17 2002

Technology Center 2100

INFORMATION DISCLOSURE STATEMENT  
IN ACCORDANCE WITH 37 CFR §1.98

Chernoff, Vilhauer, McClung & Stenzel, LLP  
1600 ODS Tower  
601 S W Second Avenue  
Portland, Oregon 97204-3157

July 22, 2002

Box Patent Application  
Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Applicants submit herewith copies of publications which they are aware of and which they desire to have considered by the Patent Office in accordance with 37 CFR §1.97. In accordance with 37 CFR §1.97(b)(3), this Information Disclosure Statement is being submitted before the mailing date of a first Office Action on the merits of the above-identified application.

In accordance with 37 CFR §1.97(h), the filing of this Information Disclosure Statement will not be regarded as an admission that any patent or publication or combination of patents referred to herein is, or is considered to be, material to patentability under 37 CFR §1.56(b) unless specifically designated as such.

A list of the publications are enclosed herewith set forth on the attached page of Form PTO-1449 (Modified).

The person making this statement is the attorney who signs below on the basis of the information supplied by the inventor and the information in his file.

Respectfully submitted,

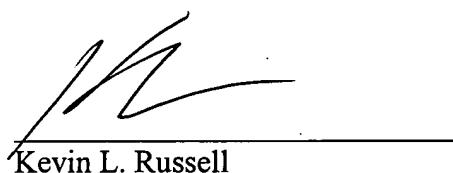


Kevin L. Russell  
Attorney for Applicant  
Registration No. 38292  
Tel: (503) 227-5631

CERTIFICATE OF MAILING

I hereby certify that these documents are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Patent Application, Commissioner for Patents, Washington, D.C. 20231.

Dated: July 22, 2002



---

Kevin L. Russell



FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.  
KLR 7146.125SERIAL NO.  
10/058,684

APPLICANT: Baoxin Li

FILING DATE  
Jan. 28, 2002GROUP  
3711

RECEIVED  
JUL 29 2002  
TECHNOLOGY CENTER R3700

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

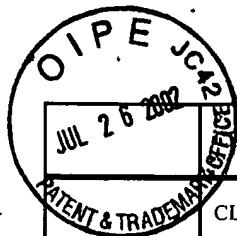
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,183,056	Jan. 8, 1980	Evans, et al.			RECEIVED
	AB	5,805,733	Sep. 8, 1998	Wang, et al.			SEP 17 2002
	AC	5,956,026	Sep. 21, 1999	Ratakonda			Technology Center 2100
	AD	5,995,095	Nov. 30, 1999	Ratakonda			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BA							
	BB							

## OTHER ART

CA	Michael A. Smith, et al., <i>Video Skimming for Quick Browsing Based on Audio and Image Characterization</i> ; Carnegie Mellon, School of Computer Science, Pittsburgh, PA; July 30, 1995; pp. 0-21.
CB	Frank R. Kschischang, et al., <i>Factor Graphs and the Sum-Product Algorithm</i> ; IEEE Transactions of Information Theory, Vol. 47, No. 2, February 2001; pp. 498-519.
CC	Stefan Eickeler, et al.; <i>Content-Based Video Indexing of TV Broadcast News Using Hidden Markov Models</i> ; IEEE International Conference of Acoustics, Speech and Signal Processing, Phoenix, AZ, 1999.
CD	Padhraic Smyth, <i>Belief Networks, Hidden Markov Models, and Markov Random Fields: a Unifying View</i> ; Information and Computer Science Department of University of California, Irvine, CA; March 20, 1998, pp. 1-11.
CE	Wayne Wolf, <i>Hidden Markov Model Parsing of Video Programs</i> ; Department of Electrical Engineering , Princeton University, 1997, pp. 2609-2611.
CF	H. Pam, et al., <i>Detection of Slow-Motion Replay Segments in Sports Video for Highlights Generation</i> , IEEE International Conference of Acoustics, Speech, and Signal Processing, Salt Lake City, UT, 2001.
CG	Youn Rui, et al.; <i>Automatically Extracting Highlights for TV Baseball Programs</i> , Microsoft Research, Redmond, WA , 2000; pp. 105-115.
CH	Lawrence R. Rabiner, <i>A Tutorial on Hidden Markov Models and Selected Applications in Speech Recognition</i> , Proceedings of the IEEE, Vol. 77, No. 2, February 1998; pp. 257-286.
CI	Boreczky, it al., <i>A Hidden Markov Model Framework for Video Segmentation Using Audio and Image Features</i> , FX Palo Alto Laboratory, Palo Alto, CA.
CJ	Zhu Liu, et al., <i>Detecting News Reporting Audio/Visual Information</i> , AT&T Labs - Research, Red Bank, NJ; IEEE International Conference on Image Processing, Kobe, Japan, 1999.



RECEIVED

ATTORNEY DOCKET NO. KLR 7146.125

JUL 29 2002

JUL 26 2002	CL	Ullas Gargi, et al., <i>Performance Characterization of Video-Shot-Change Detection Methods</i> , IEEE Transactions of Circuits and Systems for Video Technology, Vol 10, No. 1, February 2000; pp. 1-10.
	CM	Rainer Lienhart, <i>Comparison of Automatic Shot Boundary Detection Algorithms</i> , Microcomputer Research Labs, Intel Corporation, Santa Clara, CA.; IS&SPIE Conference on Storage and Retrieval for Image and Video Databases VII, San Jose, CA, Jan. 1999; pp. 290-301.
	CN	M. R. Naphade, et al., <i>A High-Performance Shot Boundary Detection Algorithm Using Multiple Cues</i> , IEEE International Conference on Image Processing, Chicago, IL 1998; pp. 884-887.
	CO	Stuart J. Golin, <i>New Metric to Detect Wipes and Other Gradual Transitions in Video</i> , Sarnoff Corporation, Princeton, NJ; IEEE Conference on Visual Communications and Image Processing, San Jose, CA, Jan. 1999; pp. 1464-1474.
	CP	Toshio Kawashima, <i>Indexing of Baseball Telecast Content -Based Video Retrieval</i> , Dept. of Information Engineering , Hokkaido University, Sapporo, Japan; IEEE 1998, pp. 871-874.
	CQ	Dennis Yow, et al. <i>Analysis and Presentation of Soccer Highlights from Digital Video</i> , Department of Electrical Engineering of Princeton University, Princeton, NJ, 1995.
	CR	Drew D. SAR, et al. <i>Automated Analysis and Annotation of Basketball Video</i> , SPIE Vol.3022, 1997, pp. 176-187.
	CS	Yak Wang, et al., <i>MULTIMEDIA CONTENT ANALYSIS: Using Both Audio and Visual Clues</i> , IEEE Signal Processing Magazine November 2000, pp. 12-35.
	CT	

RECEIVED

SEP 17 2002

Technology Center 2100

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language translation is attached.

Information Disclosure Statement --PTO-1449 (Modified)